Oct. 3, 1933. A. LESAGE 1,928,626

FASTENING DEVICE FOR OUTBOARD MOTORS

Filed March 31, 1932 2 Sheets-Sheet 1

Fig. 1.

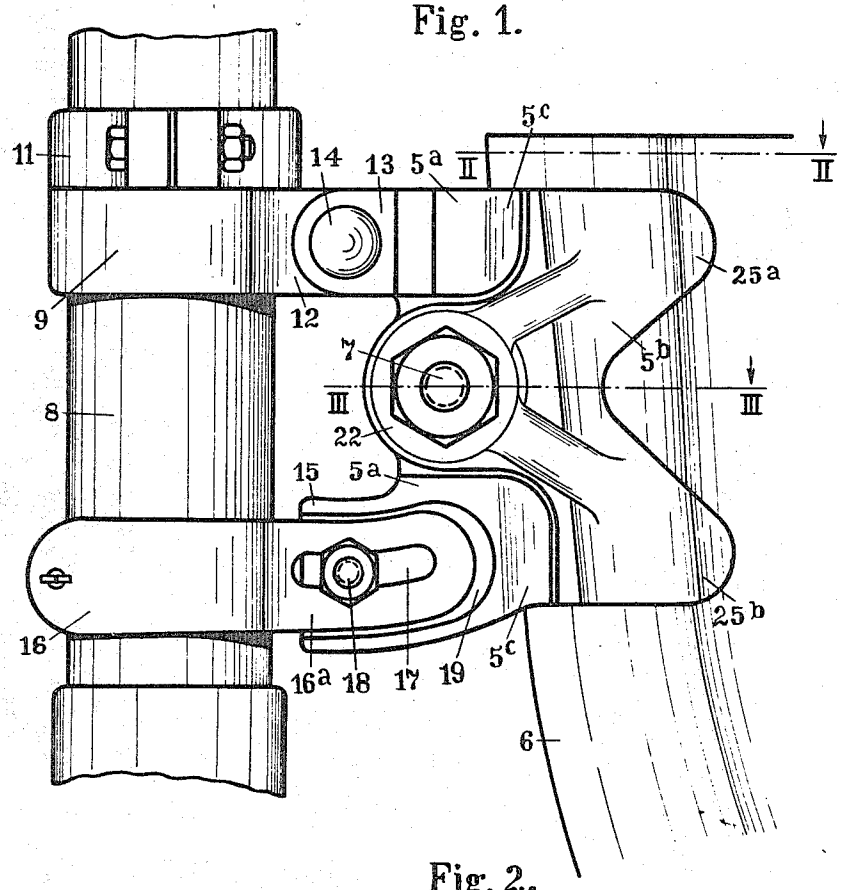
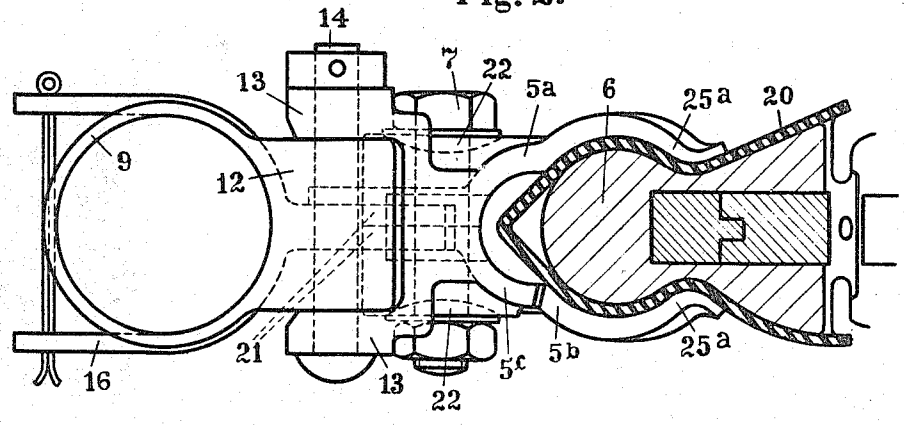


Fig. 2.



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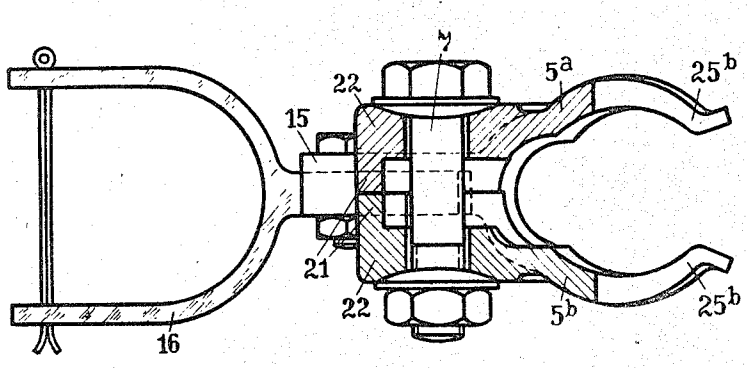


Fig. 3.

Fig. 4.

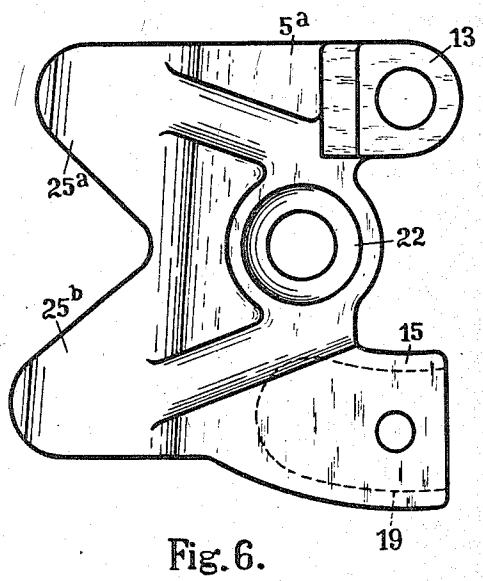


Fig. 6.

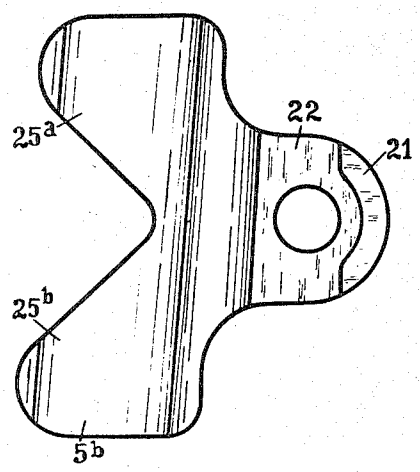
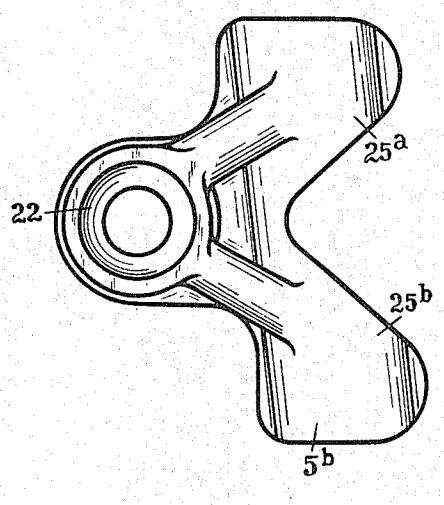


Fig. 5.



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UNITED STATES PATENT OFFICE

1,928,626

FASTENING DEVICE FOR OUTBOARD-MOTORS

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Application March 31, 1932, Serial No. 602,260, and in Germany March 31, 1931

13 Claims. (Cl. 248—14.1)

The invention relates to devices for fastening an outboard-motor to the stern of a boat, especially of a foldable boat, and the object of the invention is to so construct the device that it may be readily mounted or removed without damaging or causing the boat to leak.

This object is attained by means of a clamp or clasp applied to the stern post or stem of the boat at the sides thereof, while the rear of said clamp bears hinges and brackets on which the frame, comprising the motor and the propeller, is adjustably supported. The clamp, the flat cheeks of which are preferably hollowed out at their opposite or inner sides so that they firmly embrace or grip the boat-stem is further provided with a contracting bolt and abutments adapted to increase the leverage.

Another object of the invention is to provide one cheek of the clamp only with the means bearing the motor frame so that the other cheek may be freely adjusted with respect to the first cheek and to the boat, thus securing a close joint between adjacent faces.

An embodiment of the invention is, by way of example, illustrated in the annexed drawings, in which—

Fig. 1 is a side elevation of the fastening device, partly showing the frame of the outboard-motor and the stern of a boat,

Fig. 2 is a top plan view of the device and a horizontal section of the boat on the line II—II of Fig. 1,

Fig. 3 is a horizontal sectional view of the device alone on the line III—III of Fig. 1,

Figs. 4 and 5 illustrate the outer faces of the two cheeks of the clamp, and

Fig. 6 shows the inner face of the cheek illustrated in Fig. 5.

Like numerals denote like parts throughout all figures of the drawings.

The clamp or clip intended for fastening an outboard-motor to the stern post or stem 6 of the boat is composed of two dissimilar broad and flat clamping members or cheeks 5*a* and 5*b* joined to each other by a bolt 7, the two projections or claws 25*a* and 25*b* of either of said cheeks being curved or grooved on their inside faces and gripping the stern stem 6 of approximately circular cross section from opposite sides when assembled by the connecting or clamping bolt 7 in the manner hereinafter described. At or near the rear part of the cheeks there are formed perforations or eyes 22 designed to receive the connecting bolt 7, while from the inner or opposite faces of both cheeks and at the free side of the eyes sector-like projections or flanges 21 rise and are directed to each other, forming abutments and distance-pieces so that the front and rear parts of the cheeks act as the two arms of two armed levers when they are forced together by tightening the nut upon the screw bolt 7, the effect thereby produced being that to press the grooved portions 25*a* and 25*b* against the rounded sides of the stem 6.

As may easily be perceived particularly from Figs. 2, 4, 5 and 6, the cheek 5*b* of the clamp only comprises the two claws 25*a* and 25*b* and the eye 22 with the flange 21, while the cheek 5*a*, in addition to the counterparts, bears hook-shaped arms or extensions 5*c* preferably in semi-cylindrical form, and encircling the rear or free part of the stem 6 a certain distance above and below the eyes 22.

A fork-shaped support 13 is provided on the upper arm 5*c* to the free end of which the tail or lug 12 of a bracket in the shape of a ring 9 is hinged through a pivot bolt 14. From the lower arm 5*c* a bracket or flange 15 extends rearwardly and has a depression 19 in which the tail 16*a* of a clip or bracket 16 is received and guided. In the ring 9 and the fork-shaped clip 16 closed through a split pin, as shown in Figs. 2 and 3, a tube 8 is fixed and supported at a convenient height by a clamping ring 11 placed on the tube above the ring 9. The tube 8 forming a part of the frame of the outboard-motor receives the vertical shaft connecting the motor proper and the propeller attached respectively to the upper and lower ends of said tube in the usual and well known manner. Representation of those details, which do not refer to the invention, is omitted.

The adjustment of the tube 8 in the vertical middle plane of the boat can be effected on the one hand by pivoting it about the bolt 14, and on the other hand by displacing the projection 16*a* in the groove 19, whereby a screw locking bolt 18 fixed in a bore of the bracket 15 moves in an arcuate slot 17 of the part 16*a*, and finally tightening up the nut on the bolt 18, so that the frame of the outboard-motor will be fixed in the desired position.

The two cheeks 5*a* and 5*b* may not directly bear against the stern stem, but a sheet 20 made of India rubber or the like may preferably be inserted in order to obtain a better application of the cheeks to the boat or to protect the varnished surface of the boat. This sheet may also constitute the board sides in the case of the application of the device described to a foldable boat,

as shown in the example illustrated in the drawings.

The clamp according to the invention is fastened to the stern stem of the boat merely by clamping it thereto; perforation of the boat wall is therefore obviated and a higher or lower position on the boat permitted. The provision of the supporting appliance on one cheek only will prevent troubling of the clamping effect.

What I claim as my invention is—

1. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, one of said members having a hook-shaped portion adapted to encircle the outer end of the stern in close proximity thereto and limit the movement of said members onto the boat stern, means for clamping said members to the stern, and means connected to said hook-shaped portion for supporting an outboard-motor.

2. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, one of said members having a pair of spaced hook-shaped portions adapted to encircle the outer end of the stern in close proximity thereto and limit the movement of said members onto the boat stern, a bolt passing through said members between said portions for clamping said members in position to the stern, and means for supporting an outboard-motor from the member having the hook-shaped portions.

3. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, one of said members having a pair of spaced hook-shaped portions adapted to encircle the outer end of the stern in close proximity thereto, means for clamping said members to the stern of the boat, and means for attaching an outboard-motor to the member having the hook-shaped portions, and including a pair of spaced brackets connected to said latter member near to said portions and adapted to support the outboard-motor.

4. A device for fastening an outboard-motor to the stern of a boat, including a pair of members adapted to engage opposite sides of the stern, one of said members having a curved portion adapted to encircle the outer end of the stern in close proximity thereto and limit the movement of said members onto the boat stern, means for clamping said members in fixed position to the stern, means including a bracket pivotally connected to the member having said curved portion and adapted to pivotally support said motor, and means also connected to said latter member for locking said motor in adjusted position with respect to its pivotal support.

5. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, one of said members having a pair of spaced curved extensions adapted to encircle the outer end of the stern in close proximity thereto and limit the movement of said members onto the boat stern, means for clamping said members to the stern of a boat, means for supporting the outboard motor in fixed position from the member having the curved extensions, and means for adjustably securing said motor in a substantially vertical plane on said supporting means.

6. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, means for clamping said members to the stern, means for pivotally supporting an outboard-motor from one of said members and including a pivot bolt, a bracket adapted to engage said outboard-motor at a section vertically spaced from the section to which said motor is pivotally supported, and adjustable about said pivot bolt, and means for locking said bracket in adjusted position to one of said members.

7. A device for fastening an outboard-motor to the stern of a boat, including a pair of members adapted to engage opposite sides of the stern, means for clamping said members to the stern, means for pivotally supporting the outboard-motor from one of said members, and including a pivot bolt, and means connected to one of said members for holding the motor in fixed position with respect to said pivot bolt, and including a locking bolt vertically spaced a substantial distance in respect to said pivot bolt when said members are clamped to the stern.

8. A device for fastening an outboard-motor to the stern of a boat, including a pair of members adapted to engage opposite sides of the stern, a bolt passing through said members for clamping said members in fixed position to the stern, a bracket pivotally connected to one of said members, vertically spaced from said bolt when said members are clamped in position, and adapted to engage said outboard-motor, a second bracket spaced from said bolt on the side opposite to the first bracket, and adapted to engage the outboard-motor, slidable connections between said second bracket and one of said members, and means for locking said second bracket in position to said latter member.

9. A device for fastening an outboard-motor to the stern of a boat, including a pair of members adapted to engage opposite sides of the stern, one of said members having a curved extension adapted to encircle the outer end of the stern but spaced therefrom, a flange extending from said curved extension, and having a groove, a bracket adapted to engage the outboard-motor and slidable in said groove, means for locking said bracket in position, and means for pivotally supporting the outboard-motor from one of said members.

10. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, a bolt passing through said members for clamping said members to the stern, on opposite sides thereof, means for pivotally supporting the outboard-motor from one of said members, and including a fork-shaped member extending from said latter member, a bracket adapted to engage the out-board motor and having a portion between the prongs of said fork-shaped member, and a pivot bolt passing through said prongs and said bracket portion for pivotally supporting said bracket, and means connected to one of said members for holding the motor in fixed position with respect to said pivot bolt and including a locking bolt, said pivot and locking bolts being on opposite sides of said clamping bolt and vertically spaced when said members are clamped to the stern.

11. A device for fastening an outboard-motor to the stern of a boat, including a pair of members adapted to engage opposite sides of the stern, and provided with inwardly extending flanges adapted to abut, one of said members having a pair of hook-shaped extensions adapted to encircle the outer end of the stern and vertically spaced when said members are in clamped position, a

clamping bolt passing through said members between said flanges and the portions of said members adapted to engage the sides of the stern, whereby upon tightening of said bolt said members will firmly engage the sides of the boat, with the abutting portions of said flanges acting as a pivot for said members, and a pair of brackets connected to the member having the hook-shaped extensions, and disposed substantially in the horizontal planes of said extensions when said members are clamped in position, one of said brackets being pivotally connected to and the other bracket being slidably connected to said latter member.

12. A device for fastening an outboard-motor to the stern of a boat, including a pair of clamping members adapted to engage opposite sides of the stern, said members being provided with flanges adapted to abut, a bolt passing through said members between said flanges and the portions of said members adapted to engage opposite sides of the stern, whereby upon tightening said bolt said members will firmly be clamped to the stern of the boat, with the abutting portions of said flanges acting as a pivot for said members, a bracket pivoted to one of said members and adapted to engage an outboard-motor, a second bracket adapted to engage the outboard-motor, slidably connected to one of said members, and vertically spaced from the pivotal connection of said first bracket, and means for locking said second bracket in selected positions, whereby the two brackets may be adjusted to effect the adjustment of an outboard-motor in a substantially vertical plane.

13. In a device for fastening an outboard motor to the stern of a boat, the combination with a pair of clamping members adapted to engage the stern post of the boat, of an upper forked projection on one of said members, a lower flat projection on said member, a bolt passing through said members for clamping the same in position on the stern post, a support for an outboard motor, a pivot bolt passing through said forked projection and said support, and means attached to the lower flat projection for adjusting the support in respect to said members and about said pivot bolt.

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